

### **REMARKS**

Claims 1, 8 and 14 have been amended with claims 8 and 14 rewritten in independent form to include the base claim in response to the Examiner's objections. Claim 7 has been canceled. Support for the amendments are found throughout the specification as filed. No new matter is added. Claims 1-5 and claims 8-14 are pending in the application.

Applicant respectfully submits that independent claims 1 and 9 do not include the structure shown in Figure 1 and the structure of Figure 1 has nothing to do with the claimed invention. It is cited in claim 1 that the central principal ray incident again on the first surface travels toward opposite side to a reflecting side in the previous reflection at the first surface. In the structure of Figure 1, the central principal ray travels toward same side to a reflection side in the previous reflection at the first surface. Applicant has attached Explanatory Drawings 1 and 2 to illustrate applicant's argument.

Claims 1, 3-5 and 8 were rejected under 35 U.S.C. §102(b) as being anticipated by Takeyama (U.S. Patent Publication 2002/0039232). Applicant respectfully traverses this rejection. In Figure 14 of Takeyama, the combined optical power provided by elements 41 and 35 is positive (not negative). Element 41 has substantially flat surface and does not have refractive power. In addition, element 35 is convex toward element 41 and has refractive power (positive optical power). Thus, the combined optical power provided by elements 41 and 35 is positive. Therefore, applicant respectfully submits that claims 1, 3-5 and 8 are not anticipated by Takeyama and requests that the rejection be withdrawn.

Claims 9 and 11-14 were rejected under 35 U.S.C. §102(e) as being anticipated by Takagi (U.S. Patent No. 7,012,756). Applicant respectfully traverses this rejection. In Figure 17 of Takagi, the combined optical power provided by surfaces S8 and S3/S7 is positive (not negative). In Figure 17 of Takagi, the light flux guided to the surface S8 are diverging and the light flux passed through the surface S7 are diverging. However, degree of divergence of the light flux passed through the surface S7 is smaller than that of the light flux guided to the surface S8. That is, the light flux passed through the surface S7 are not further diverging. Thus, the combined optical power provided by the surface S7 and S8 is positive. Thus, applicant respectfully submits that claims 9 and 11-14 are not anticipated by Takagi and requests that the rejection be withdrawn.

Claim 2 was rejected under 35 U.S.C. 103(a) as being unpatentable over Takeyama in view of Iwamura, et al. (U.S. Patent Publication No. 2002/0180907). Claim 10 was rejected under 35 U.S.C. §103(a) as being unpatentable over Takagi in view of Iwamura. Applicant respectfully requests that these rejections be withdrawn since neither Takeyama or Takagi teach the invention of claim 1 and 9 as set forth above. Therefore, these references cannot properly be combined with Iwamura to render the cited claims unpatentable.

Applicant has not independently addressed the rejections of the dependent claims. Applicant submits that, in view of the amendments to the claims presented herein and, for at least similar reasons as to why the independent claims from which the dependent claims depend are believed allowable as discussed supra,

the dependent claims are also allowable. Applicant however, reserves the right to address any individual rejections of the dependent claims should such be necessary or appropriate.

Applicant respectfully requests an interview with the Examiner to discuss these amendments and remarks if the Examiner still contends that the feature cited in the last paragraph of amended claim 1 shares the structure of applicant's Figure 1.

#### **CONCLUSION**

For the above-stated reasons, this application is respectfully asserted to be in condition for allowance. An early and favorable examination on the merits is requested

#### **AUTHORIZATION**

A petition for extension of time is requested herein. No additional fees are believed necessary for this paper. However, should any other fees be required for the timely submission of this paper, the Commissioner is hereby authorized to charge any additional fees which may be required for this paper, or credit any overpayment, to Deposit Account No. 13-4500, Order No. 1232-5416.

Serial No. 10/849,349

Docket No. 1232-5416

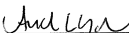
Paper dated: October 9, 2007

Responsive to Office Action dated: May 7, 2007

Respectfully submitted,  
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Dated: October 9, 2007

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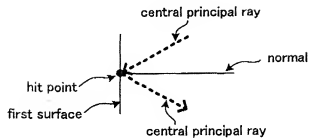
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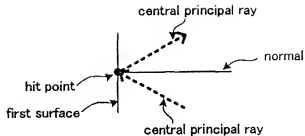
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**Explanation Drawing 1**  
(claimed invention)

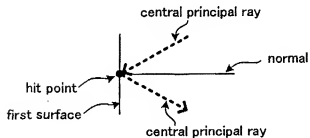


[Trajectory of central principal ray in  
previous reflection at first surface]

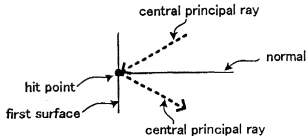


[Trajectory of central principal ray  
incident again on first surface]

**Explanation Drawing 2**  
(corresponding  
applicant's figure 1 and  
figure 14 of Takeyama)



[Trajectory of central principal ray in  
previous reflection at first surface]



[Trajectory of central principal ray  
incident again on first surface]